

SUBSTITUTE FORM PTO-1449A UNITED STATES DEPARTMENT OF PATENTS AND APPLICANT'S INFORMATION DISCLOSURE STATEMENT		Atty Docket: Serial No.: Applicant: Filing Date: Group:	55304CON4 10/767,016 Foore et al. January 29, 2004
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U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Sub Class	Filing Date
/AQ/	AA	5,442,626	8/16/95	Gitlin et al.	370	18	Duplicate
	AB	5,734,646	3/31/98	I et al.	370	335	Duplicate
	AC	5,373,502	12/13/94	Turban	370	18	
	AD	6,069,883	5/30/00	Ejzak et al.	370	335	
	AE	6,088,335	7/11/00	I et al.	370	252	
	AF	5,856,971	1/5/99	Gitlin et al.	370	335	Duplicate
	AG	6,418,148	7/9/02	Kumar et al.	370	468	
	AH	5,859,840	1/12/99	Tiedemann, Jr. et al.	370	335	Duplicate
	AI	5,930,230	7/27/99	Odenwalder et al.	370	208	
	AJ	5,914,950	6/22/99	Tiedemann, Jr. et al.	370	348	
	AK	6,396,804	5/28/02	Odenwalder	370	209	
	AL	6,574,211	6/3/03	Padovani et al.	370	347	
	AM	6,389,000	5/14/02	Jou	370	342	Duplicate
	AN	6,377,809	4/23/02	Rezaifar et al.	455	455	Duplicate
/AQ/	AO	6,005,855	12/21/99	Zehavi et al.	370	335	
	AP	6,064,678	5/16/00	Sindhushayana et al.	370	470	
	AQ	5,790,551	8/4/98	Chan	370	458	
	AR	5,828,662	10/27/98	Jalali et al.	370	335	
	AS	6,269,088	7/31/01	Masui et al.	370	335	
	AT	5,923,650	7/13/99	Chen et al.	370	331	
	AU	5,663,990	9/2/97	Bolgiano et al.	375	347	
	AV	5,673,259	9/30/97	Quick, Jr.	370	342	
	AW	5,784,406	7/21/98	DeJaco et al.	375	224	
	AX	5,828,659	10/27/98	Teder et al.	370	328	
	AY	5,844,894	12/1/98	Dent	370	330	
	AZ	5,910,945	6/8/99	Garrison et al.	370	324	
	BA	5,950,131	9/7/99	Vilmur	455	434	
/AQ/	BB	5,991,279	11/23/99	Haugli et al.	370	311	

EXAMINER: /Afsar Qureshi/

DATE CONSIDERED: 09/13/2007

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U.S. PATENT DOCUMENTS							
Examiner Initials		Document Number	Date	Name	Class	Sub Class	Filing Date
/AQ/	BC	6,028,868	2/22/00	Yeung et al.	370	515	
	BD	6,078,572	6/20/00	Tanno et al.	370	335	
	BE	6,112,092	8/29/00	Benveniste	455	450	
	BF	6,134,233	10/17/00	Kay	370	350	
	BG	6,157,619	12/5/00	Ozluturk et al.	370	252	
	BH	6,161,013	12/12/00	Anderson et al.	455	435	
	BI	6,196,362	2/27/01	Darcie et al.	370	431	
	BJ	6,208,871	3/27/01	Hall et al.	455	517	
	BK	6,215,798	4/10/01	Carneheim et al.	370	515	
	BL	6,222,828	4/24/01	Ohlson et al.	370	320	
	BM	6,243,372	6/5/01	Petch et al.	370	350	
	BM	6,259,683	7/10/01	Sekine et al.	370	328	
	BO	6,262,980	7/17/01	Leung et al.	370	336	
	BP	6,272,168	8/7/01	Lomp et al.	375	206	
	BQ	6,285,665	9/4/01	Chuah	370	319	
	BR	6,307,840	10/23/01	Wheatley, III et al.	370	252	
	BS	6,366,570	4/2/02	Bhagalia	370	342	
	BT	6,373,830	4/16/02	Ozluturk	370	335	
	BU	6,373,834	4/16/02	Lundh et al.	370	350	
	BV	6,377,548	4/23/02	Chuah	370	233	
	BW	6,456,608	9/24/02	Lomp	370	335	
	BX	6,469,991	10/22/02	Chuah	370	329	
	BY	6,473,623	10/29/02	Benveniste	455	522	
	BZ	6,504,830	1/7/03	Östberg et al.	370	342	
	CA	6,519,651	2/11/03	Dillon	709	250	
✓	CB	6,526,039	2/25/03	Dahlman et al.	370	350	
/AQ/	CC	6,532,365	3/11/03	Anderson et al.	455	437	
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Examiner Initials		Document Number	Date	Name	Class	Sub Class	Filing Date
/AQ/	CD	6,545,986	4/8/03	Stellakis	370	318	
	CE	6,567,416	5/20/03	Chuah	370	418	
	CF	6,571,296	5/27/03	Dillon	709	250	
	CG	6,570,865	5/27/03	Masui et al.	370	342	
	CH	6,597,913	7/22/03	Natarajan	455	452	
/AQ/	CI	5,642,348	6/24/97	Barzegar et al.	370	277	
	CJ						
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)							
/AQ/	CK	Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 1005					
	CL	Chih-Lin I et al., IS-95 Enhancements for Multimedia Services, Bell Labs Technical Journal, Pages 60-87, Autumn 1996					
	CM	Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995					
	CN	Liu et al., Channel Access and Interference Issues in Multi-Code DS-CDMA Wireless Packet (ATM) Networks, Wireless Networks 2, Pages 173-196, 1996					
	CO	Chih-Lin I et al., Load and Interference Based Demand Assignment (LIDA) for Integrated Services in CDMA Wireless Systems, November 18, 1996, Pages 235-241					
	CP	Budka et al., Cellular Digital Packet Data Networks, Bell Labs Technical Journal, Summer 1997, Pages 164-181					
	CQ	Cellular Digital Packet Data, System Specification, Release 1.1, January 19, 1995					
	CR	Data Standard, Packet Data Section, PN-3676.5 (to be published as TIA/EIA/IS-DATA.5), December 8, 1996, Version 02 (Content Revision 03)					
	CS	Data Service Options for Wideband Spread Spectrum Systems: Introduction, PN-3676.1 (to be published as TIA/EIA/IS-707.1), March 20, 1997 (Content Revision 1)					
	CT	Packet Data Service Option Standard for Wideband Spread Spectrum Systems, TIA/EIA Interim Standard, TIA/EIA/IS-657, July 1996					
	CU	Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System, TIA Interim Standard, TIA/EIA/IS-95-A (Addendum to TIA/EIA/IS-95), May 1995					
/AQ/	CV	Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems, TIA/EIA Standard, TIA/EIA-95-B (Upgrade and Revision of TIA/EIA-95-A), March 1999					
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)			
/AQ/	CW	Network Wireless Systems Offer Business Unit (NWS OBU), Feature Definition Document for Code Division Multiple Access (CDMA) Packet Mode Data Services, FDD-1444, November 26, 1996	
	CX	Draft Text for "95C" Physical Layer (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%202.pdf, 1998)	
	CY	Draft Text for "95C" Physical Layer (Revision 4), Part 1, Document #531-981-20814-95C, Part 1 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%201.pdf)	
	CZ	Reed et al., Iterative Multiuser Detection for CDMA with FEC: Near-Single-User Performance, IEEE Transactions on Communications, Vol. 46, No. 12, December 1998, Pages 1693-1699	
	DA	Hindelang et al., Using Powerful "Turbo" Codes for 14.4 Kbit/s Data Service in GSM or PCS Systems, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. II, Pages 649-653	
	DB	Kaiser et al., Multi-Carrier CDMA with Iterative Decoding and Soft-Interference Cancellation, Proceedings of Globecom 1997, Vol. 1, Pages 523-529	
	DC	Wang et al., The Performance of Turbo-Codes in Asynchronous DS-CDMA, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. III, Pages 1548-1551	
	DD	Hall et al., Design and Analysis of Turbo Codes on Rayleigh Fading Channels, IEEE Journal on Selected Areas in Communications, Vol. 16, No. 2, February 1998, Pages 160-174	
	DE	High Data Rate (HDR) Solution, Qualcomm, December 1998	
	DF	Azad et al., Multirate Spread Spectrum Direct Sequence CDMA Techniques, 1994, The Institute of Electrical Engineers	
	DG	Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, Revision 0.1, May 5, 1997	
	DH	Knisely, Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, January 16, 1997	
	DI	Kumar et al, An Access Scheme for High Speed Packet Data Service on IS-95 based CDMA, February 11, 1997	
	DJ	Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, April 14, 1997	
↓	DK	Lucent Technologies Presentation First Slide Titled, Summary of Multi-Channel Signaling Protocol, April 6, 1997	
/AQ/	DL	Lucent Technologies Presentation First Slide Titled, Why Support Symmetric HSD (Phase 1C), February 21, 1997	
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)			
/AQ/	DM	Krzymien et al., Rapid Acquisition Algorithms for Synchronization of Bursty Transmissions in CDMA Microcellular and Personal Wireless Systems, IEEE Journal on Selected Areas in Communications, Vol. 14, No. 3, April 1996, Pages 570-579	
	DN	Chih-Lin I et al., Variable Spreading Gain CDMA with Adaptive Control for True Packet Switching Wireless Network, 1995, Pages 725-730	
	DO	Skinner et al., Performance of Reverse-Link Packet Transmission in Mobile Cellular CDMA Networks, IEEE, 2001, Pages 1019-1023	
	DP	Lau et al., A Channel-State-Dependent Bandwidth Allocation scheme for Integrated Isochronous and Bursty Media Data in a Cellular Mobile Information System, IEEE, 2000, Pages 524-528	
	DQ	Elhakeem, Congestion Control in Signalling Free Hybrid ATM/CDMA Satellite Network, IEEE, 1995, Pages 783-787	
	DR	Chung, Packet Synchronization and Identification for Incremental Redundancy Transmission in FH-CDMA Systems, 1992, IEEE, Pages 292-295	
✓	DS	High Data Rate (HDR), cdmaOne optimized for high speed, high capacity data, Wireless Infrastructure, Qualcomm, September 1998	
/AQ/	DT	Viterbi, The Path to Next Generation Services with CDMA, Qualcomm Incorporated, 1998 CDMA Americas Congress, Los Angeles, California, November 19, 1998	
	DU		
	DV		
	DW		
	DX		
	DY		
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55304DIV2
Not Yet Assigned
Foore et al.
Herewith

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Sub Class	Filing Date
/AQ/	AA	4,107,469	8/15/78	Jenkins	179	15BW	
	AB	4,577,316	3/18/96	Schiff	370	104	
	AC	4,625,308	11/25/86	Kim et al.	370	107	
	AD	4,675,863	6/23/87	Paneth et al.	370	50	
	AE	4,817,089	3/28/89	Paneth et al.	370	95	
	AF	4,862,453	8/29/89	West et al.	370	82	
	AG	4,866,709	9/12/89	West et al.	370	82	
	AH	4,912,705	3/27/90	Paneth et al.	370	95.1	
	AI	5,022,024	6/4/91	Paneth et al.	370	50	
	AJ	5,027,348	6/25/91	Curry Jr.	370	445	
	AK	5,114,375	5/19/92	Wellhausen et al.	446	246	
	AL	5,115,309	5/19/92	Hang	358	133	
	AM	5,268,900	12/7/93	Hluchyj et al.	370	94.1	
	AN	5,282,222	1/25/94	Fattouche et al.	375	1	
	AO	5,325,419	6/28/94	Connolly et al.	379	60	
	AP	5,355,374	10/11/94	Hester et al.	370	84	
	AQ	5,388,102	2/7/95	Griffith et al.	370	105.1	
	AR	5,394,473	2/28/95	Davidson	381	36	
	AS	5,412,429	5/2/95	Glover	348	398	
	AT	5,463,629	10/31/95	Ko	370	110.1	
	AU	5,471,463	11/28/95	Hulbert	370	18	
	AV	5,585,850	12/17/96	Schwaller	348	388	
	AW	5,592,470	1/7/97	Rudrapatna et al.	370	320	
	AX	5,592,471	1/7/97	Rudrapatna et al.	370	320	
	AY	5,617,423	4/1/97	Li et al.	370	426	
	AZ	5,655,001	8/5/97	Cline et al.	370	328	
	BA	5,657,358	8/12/97	Paneth et al.	375	356	
↓	BB	5,663,958	9/2/97	Ward	370	347	
/AQ/	BC	5,687,194	11/11/97	Paneth et al.	375	283	

INFORMATION DISCLOSURE STATEMENT				Atty Docket: Serial No.: Applicant: Filing Date: Group:	55304DIV2 Not Yet Assigned Foore et al. Herewith		
U.S. PATENT DOCUMENTS							
Examiner Initials		Document Number	Date	Name	Class	Sub Class	Filing Date
/AQ/	BD	5,697,059	12/9/97	Carney	455	34.1	
	BE	5,699,364	12/16/97	Sato et al.	371	5.5	
	BF	5,781,542	7/14/98	Tanaka et al.	370	342	
	BG	5,793,744	8/11/98	Kanerva et al.	370	209	
	BH	5,859,879	1/12/99	Bolgiano et al.	375	347	
	BI	5,845,211	12/1/98	Roach, Jr.	455	436	
	BJ	5,854,786	12/29/98	Henderson et al.	370	335	
	BK	5,881,060	3/9/99	Morrow et al.	370	337	
	BL	5,893,376	4/13/99	Glassberg	132	273	
	BM	5,956,332	9/21/99	Rasanen et al.	370	342	
	BN	5,966,374	10/12/99	Rasanen	370	337	
	BO	6,002,690	12/14/99	Takayama et al.	370	437	
	BP	6,011,800	1/4/00	Nadgauda et al.	370	437	
	BQ	6,052,385	4/18/00	Kanerva et al.	370	468	
	BR	6,097,733	8/1/00	Basu et al.	370	468	
	BS	6,111,863	8/29/00	Rostoker et al.	370	329	
↓	BT	6,198,723	3/6/01	Parruck et al.	370	230	
/AQ/	BU	6,370,117	4/9/02	Koraitim et al.	370	232	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub Class	Translation
/AQ/	BV	0682423	11/15/95	EP	H04J13	00	
	BW	96/08934	3/21/96	WO	H04Q7	22	
	BX	0719062	6/26/96	EP	H04Q7	36	
	BY	96/37081	11/21/96	WO	H04Q7	24	
	BZ	0526106	2/3/93	EP	H04Q11	04	
	CA	97/46044	12/4/92	WO	H04Q7	38	
	CB	97/23073	6/26/97	WO	H04J3	16	
	Cc	0443061	8/28/91	EP	H04L1	12	
↓	CD	0635949	1/25/95	EP	H04B7	005	
/AQ/	CE	2761557	10/2/98	FR	H04B7	216	

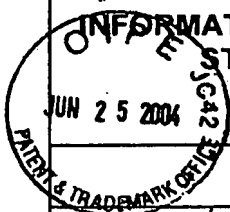
INFORMATION DISCLOSURE STATEMENT		Atty Docket: Serial No.: Applicant: Filing Date: Group:	55304DIV2 Not Yet Assigned Foore et al. Herewith
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)			
/AQ/	CF	Melanchuk et al., <i>CDPD and Emerging Digital Cellular Systems</i> , Digest of Papers of COMPCON, Computer Society Conference 1996, Technologies for the Information Superhighway, Santa Clara, CA, no. CONF. 41, February 25, 1996, pages 2-8, XP000628458, Institute of Electrical and Electronics Engineers.	
/AQ/	CG	Shacham et al., A Selective-Repeat-ARQ Protocol for Parallel Channels and Its Resequencing Analysis, IEEE Transactions on Communications, XP000297814, 40 (4): 773-782 (Apr. 1192)	
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U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Sub Class	Filing Date
	AA						
	AB						
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	AD						
	AE						
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	AH						
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	AK						
	AL						
	AM						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation
/AQ/	AN	95/08900	3/30/95	WO	H04Q7	22	
	AO						
	AP						
	AQ						

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

/AQ/	AR	Bell Labs Technical Journal, Lucent Technologies, Volume 2, Number 3, Summer 1997
/AQ/	AS	Puleston, PPP Protocol Spoofing Control Protocol, Global Village Communication (UK) Ltd., February 1996
	AT	

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	APPLICANT Foore et al.	
	FILING DATE January 29, 2004	GROUP 2616

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/AQ/	*	4,107,469	08/15/1978	Jenkins			
	*	4,577,316	03/18/1986	Schiff			
	*	4,625,308	11/25/1986	Kim et al.			
		4,675,863	06/23/1987	Paneth et al.			
		4,817,089	03/28/1989	Paneth et al.			
		4,841,526	06/20/1989	Wilson et al.			
	*	4,862,453	08/29/1989	West et al.			
	*	4,866,709	09/12/1989	West et al.			
		4,912,705	03/27/1990	Paneth et al.			
		4,949,395	08/14/1990	Rydbeck			
		5,022,024	06/04/1991	Paneth et al.			
	*	5,027,348	06/25/1991	Curry			
		5,027,400	06/25/1991	Baji et al.			
		5,114,375	05/19/1992	Wellhausen et al.			
	*	5,115,309	05/19/1992	Hang			
		5,226,044	07/06/1993	Gupta et al.			
	*	5,268,900	12/07/1993	Hluchyj et al.			
		5,282,222	01/25/1994	Fattouche et al.			
		5,325,419	06/28/1994	Connolly et al.			
		5,355,374	11/11/1994	Hester et al.			
		5,373,502	12/13/1994	Turban			
	*	5,375,124	12/20/1994	D'Ambrogio, et al.			
	*	5,388,102	02/07/1995	Griffith et al.			
✓	*	5,394,473	02/28/1995	Davidson			
/AQ/		5,412,429	05/02/1995	Glover			

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	<p>APPLICANT Foore et al.</p>	
	<p>FILING DATE January 29, 2004</p>	<p>GROUP 2616</p>

/AQ/		5,442,625 /	08/15/1995	Gitlin et al.			
		5,463,629	10/31/1995	Ko			
		5,471,463	11/28/1995	Hulbert			
		5,585,850	12/17/1996	Schwaller			
		5,592,470	01/04/1997	Rudrapatna et al.			
		5,592,471	01/07/1997	Briskman			
		5,606,580	02/25/1997	Mourot et al. <small>Corresponds to 0635949EP</small>			
		5,617,423	04/01/1997	Li et al.			
		5,642,348	06/24/1997	Barzegar et al.			
		5,655,001	08/05/1997	Cline et al.			
		5,657,358	08/12/1997	Panech et al.			
		5,663,958	09/02/1997	Ward			
		5,663,990	09/02/1997	Bolgiano et al.			
		5,673,259	09/30/1997	Quick, Jr.			
		5,687,194	11/11/1997	Paneth et al.			
		5,697,059	12/09/1997	Carney			
		5,699,364	12/16/1997	Sato et al.			
		5,734,646 /	03/31/1998	I et al.			
		5,781,542	07/14/1998	Tanaka et al.			
		5,784,406	07/21/1998	DeJaco et al.			
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V		5,828,662	10/27/1998	Jalali et al.			
/AQ/		5,844,894	12/01/1998	Dent			

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/AQ/	.	5,845,211	12/01/1998	Roach			
	.	5,854,786	12/29/1998	Henderson et al.			
		5,856,971 /	01/05/1999	Gitlin et al.			
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		6,069,883	05/30/2000	Ejzak et al.			
V		6,078,572	06/20/2000	Tanno et al.			
/AQ/		6,081,536	06/27/2000	Gorsuch et al.			
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/AQ/		6,088,335	07/11/2000	I et al.			
		6,097,733	8/01/2000	Basu et al.			
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		6,373,830	04/16/2002	Ozluturk			
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↓		6,377,548	04/23/2002	Chuah			
/AQ/		6,377,809 /	04/23/2002	Rezaiifar et al.			
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/AQ	*	6,388,999	05/14/2002	Gorsuch et al.			
		6,389,000 /	05/14/2002	Jou			
		6,396,804 /	05/28/2002	Odenwalder			
		6,418,148 /	07/09/2002	Kumar et al.			
		6,456,608	09/24/2002	Lomp			
		6,469,991	10/22/2002	Chuah			
		6,473,623	10/29/2002	Benveniste			
		6,504,830	01/07/2003	Östberg et al.			
		6,519,651	02/11/2003	Dillon			
		6,526,039	02/25/2003	Dahlman et al.			
	*	6,526,064	02/25/2003	Bousquet ^{Corresponds to 2761557 FR}			
		6,526,281	02/25/2003	Gorsuch et al.			
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	*	6,542,481	04/01/2003	Foore et al.			
		6,545,986	04/08/2003	Stellakis			
		6,567,416	05/20/2003	Chuah			
		6,570,865	05/27/2003	Masui et al.			
		6,571,296	05/27/2003	Dillon			
		6,574,211 /	06/03/2003	Padovani et al.			
		6,597,913	07/22/2003	Natarajan			
↓	*	2004/0160910	08/19/2004	Gorsuch et al.			
/AQ		2004/0180696	09/16/2004	Foore et al.			

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	<p align="center">APPLICANT Foore et al.</p>	
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FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
/AQ/	.	443061	08/1991	EP			X ¹	
		526106	02/03/1993	EP				
	.	X 635949	Corresponds to US5606580 X	01/1995	EP		X	
		682423	11/15/1995	EP				
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		719062	06/26/1996	EP				
	.	X 2761557	Corresponds to US5526064 X	01/1998	FR		X	
		95/08900	03/30/1995	WO				
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V	.	97/32412	04/09/1997	WO				
/AQ/		97/46044	12/04/1997	WO				
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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)							
/AQ/	Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 1005.							

<p align="center">EXAMINER</p> <p align="center">/Afsar Qureshi/</p>	<p align="center">DATE CONSIDERED</p> <p align="center">09/13/2007</p>
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/AQ/	.	<i>Data Services Options Standard for Wideband Spread Spectrum Systems: Packet Data Services. PN-3676.5 (to be published as TIA/EIA/IS-707.5) Ballot Version, May 30, 1997.</i>
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X¹ English Abstract Present

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